

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**In re U.S. Patent Application of** )  
 )  
**SHIRAI et al.** )  
 )  
**Application Number: To be Assigned** )  
 )  
**Filed: Concurrently Herewith** )  
 )  
**For: CHEMICAL SUBSTANCE MEASURING APPARATUS** )  
**USING OPTICAL WAVEGUIDES** )  
 )  
**ATTORNEY DOCKET NO. HITA.0483** )

**Honorable Assistant Commissioner  
for Patents  
Washington, D.C. 20231**

**INFORMATION DISCLOSURE STATEMENT**

**Sir:**

Pursuant to 37 C.F.R. §§ 1.56 and 1.97, this Information Disclosure Statement is submitted in the above-identified patent application. A listing of documents to be published on the face of any patent granted from this application is submitted herewith on Form PTO-1449.

Any other documents or information submitted for consideration by the Examiner are listed in this paper. A copy of each U.S. and foreign patent, or each publication or portion thereof listed or herein identified, is submitted herewith.

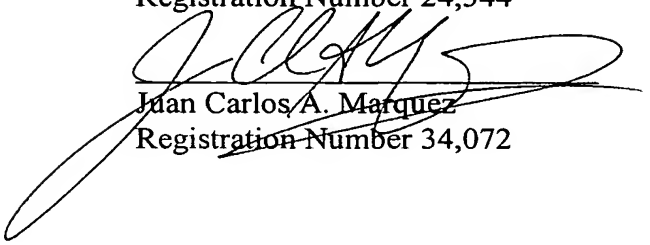
This Information Disclosure Statement is submitted with the initial filing of the application. Accordingly, no fee is due or payable at this time.

The Examiner is requested to acknowledge consideration of the information provided in this paper in accordance with prescribed procedures.

Please charge any additional fees or credit any overpayments in connection with this paper to Deposit Account No. 08-1480.

Respectfully submitted,

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| Form PTO 1449<br><br>U.S. Department of Commerce<br>Patent and Trademark Office<br><br>Information Disclosure Statement by Applicant | ATTY. DOCKET NUMBER<br><b>HITA.0483</b>     | SERIAL NUMBER<br><b>To be Assigned</b> |
|  | APPLICANT<br><b>Shirai et al.</b>           |  |
|  | FILING DATE<br><b>Concurrently Herewith</b> | GROUP                                  |

**U.S. Patent Documents**

| Examiner<br>Initial | DOCUMENT NUMBER | DATE     | NAME    | CLA<br>SS | SUBC<br>LASS | FILING DATE |
|---------------------|-----------------|----------|---------|-----------|--------------|-------------|
|                     | 6,429.023 B1    | 8/6/2002 | Gharavi |           |              | 7/20/99     |
|                     |                 |          |         |           |              |             |
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**Foreign Patent Documents**

| Examiner<br>Initial | DOCUMENT NUMBER | FILING DATE | COUNTRY | CLASS | SUB-<br>CLASS | TRANSLATION |    |
|---------------------|-----------------|-------------|---------|-------|---------------|-------------|----|
|                     |                 |             |         |       |               | YES         | NO |
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|                     |                 |             |         |       |               |             |    |
|                     |                 |             |         |       |               |             |    |
|                     |                 |             |         |       |               |             |    |

**Other Documents (Including Author, Title, Date Pertinent Pages, Etc.)**

|  |  |   |
|--|--|---|
|  |  | Biacore 2000, Product Information, "High Sensitivity Automated Analysis System", December 2001, 2 pages   |
|  |  | Biacore 3000, Product Information, "The High Performance Research System", March 2003, 12 pages   |
|  |  | The Electronic Toolbox, Part I, Analytical Chemistry, Vol. 57 (September 1985), edited by Raymond E. Dessy, pp. 1188A-1202A   |
|  |  | L.M. Lechuga, A.T.M. Lenferink, R.P.H. Kooyman and J. Greve, "Feasibility of Evanescent Wave interferometer Immunosensors for Pesticide Detection: Chemical Aspects", 1995 Elsevier Science S.A., Sensors and Actuators B24-25, 1995 Elsevier Science SA, pp. 762-765 |
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EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation is considered, whether or not citation is in conformance with MPEP 609; draw a line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant*